



State Implementation Plan (SIP) Kick-Off for Howard, Hutchinson, and Navarro County Sulfur Dioxide (SO₂) Nonattainment Areas

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Presented March 25, 2021



Overview

- Background on the 2010 SO₂ National Ambient Air Quality Standard (NAAQS) and designations
- Federal Clean Air Act requirements and SIP development
- Anticipated timeline and path forward
- Questions



Background: SO₂ Standard

- Criteria pollutants:
 - Ground-Level Ozone
 - Particulate Matter (PM_{2.5} and PM₁₀)
 - Nitrogen Dioxide (NO₂)
 - **Sulfur Dioxide (SO₂)**
 - Carbon Monoxide (CO)
 - Lead (Pb)
- 2010 SO₂ primary standard
 - 75 parts per billion (ppb)
 - Design value: 99th percentile of the annual distribution of daily maximum 1-hour averages, averaged over three years

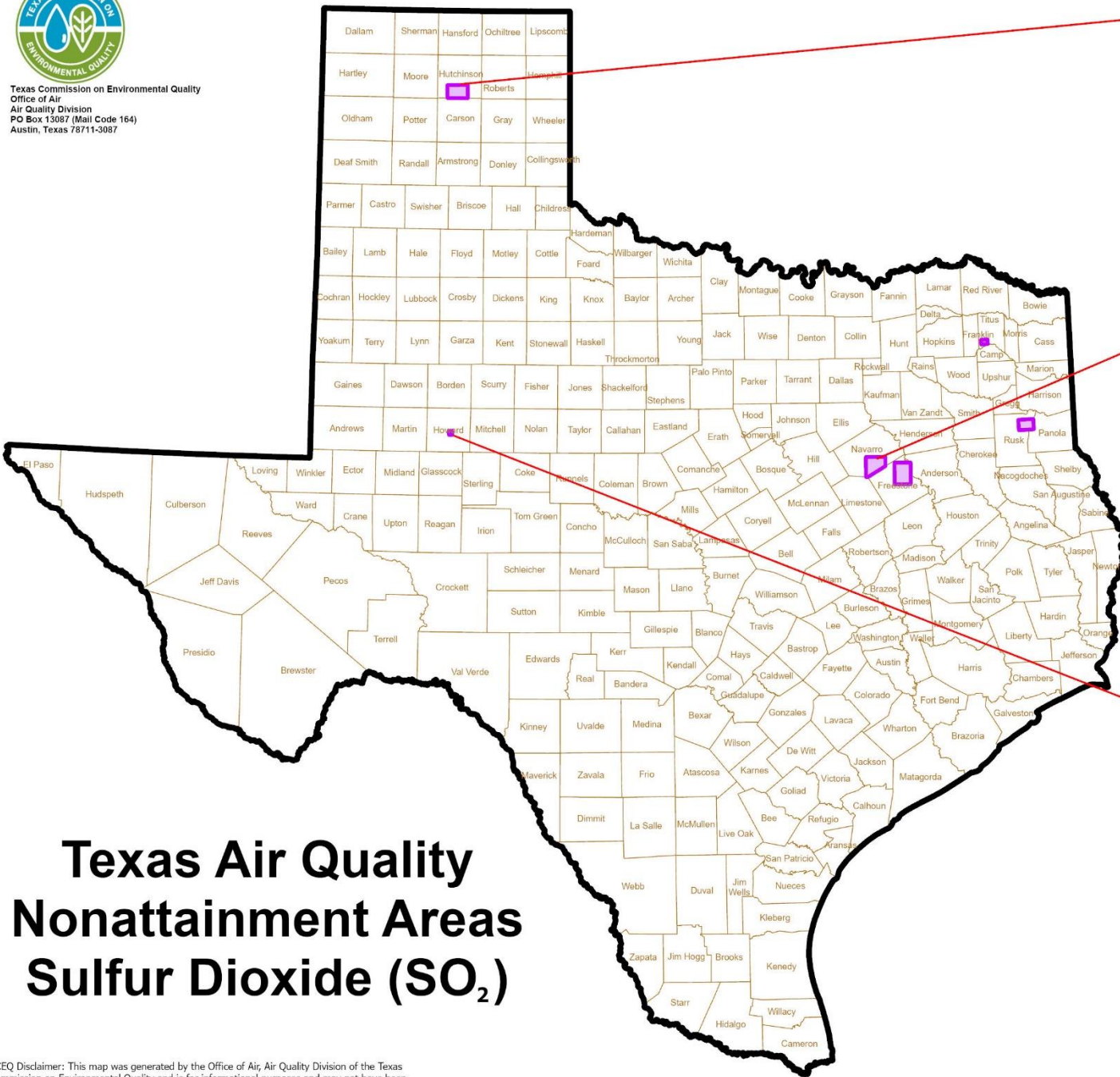


2010 SO₂ NAAQS Nonattainment Area Designations

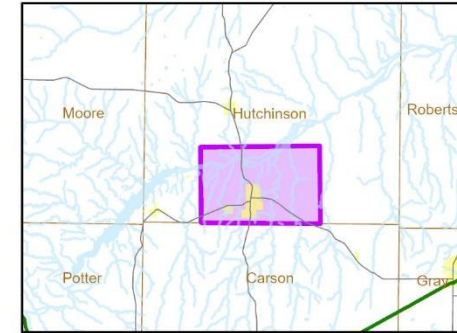
- Round 1: no Texas nonattainment areas
- Round 2: EPA designated three nonattainment areas
 - Portions of Freestone and Anderson Counties
 - Portions of Rusk and Panola Counties
 - Portion of Titus County
- Round 3: no additional Texas nonattainment areas
- Round 4: EPA designated three additional nonattainment areas
 - Portions of Howard, Hutchinson, and Navarro Counties
 - Designations scheduled to become effective April 30, 2021



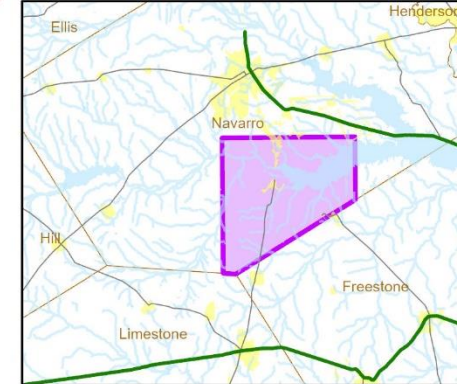
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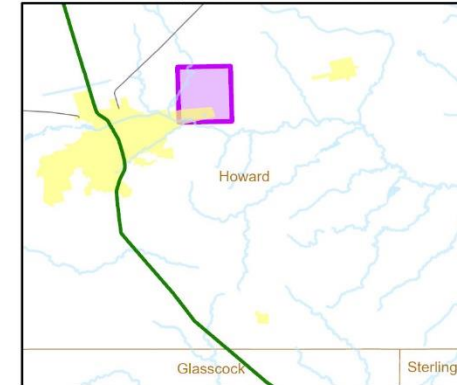
Hutchinson 2010 SO₂ Nonattainment Area



Navarro 2010 SO₂ Nonattainment Area



Howard 2010 SO₂ Nonattainment Area



Legend

2010 SO₂ Nonattainment Area

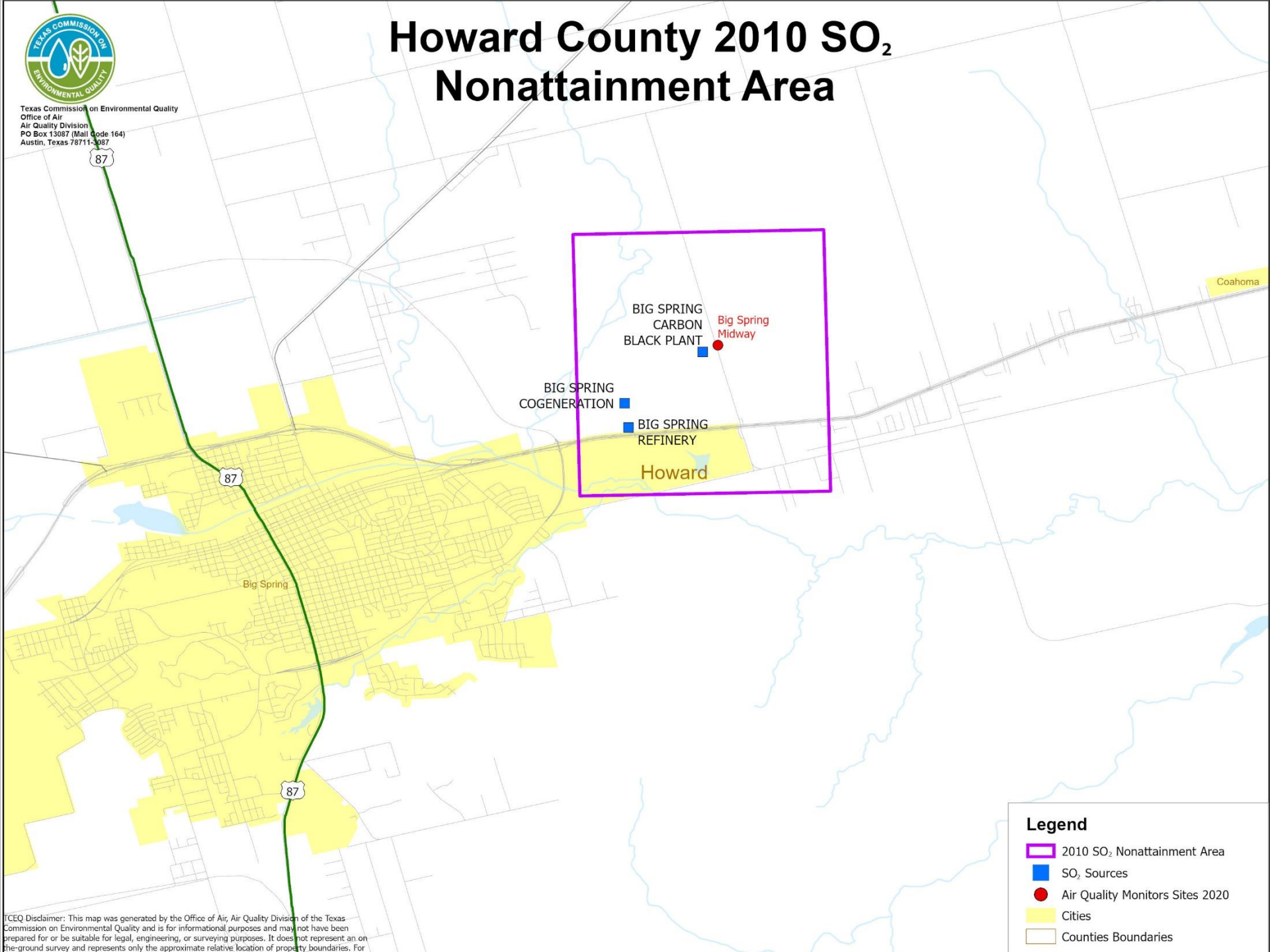
Texas Air Quality Nonattainment Areas Sulfur Dioxide (SO₂)

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Howard County 2010 SO₂ Nonattainment Area



Legend

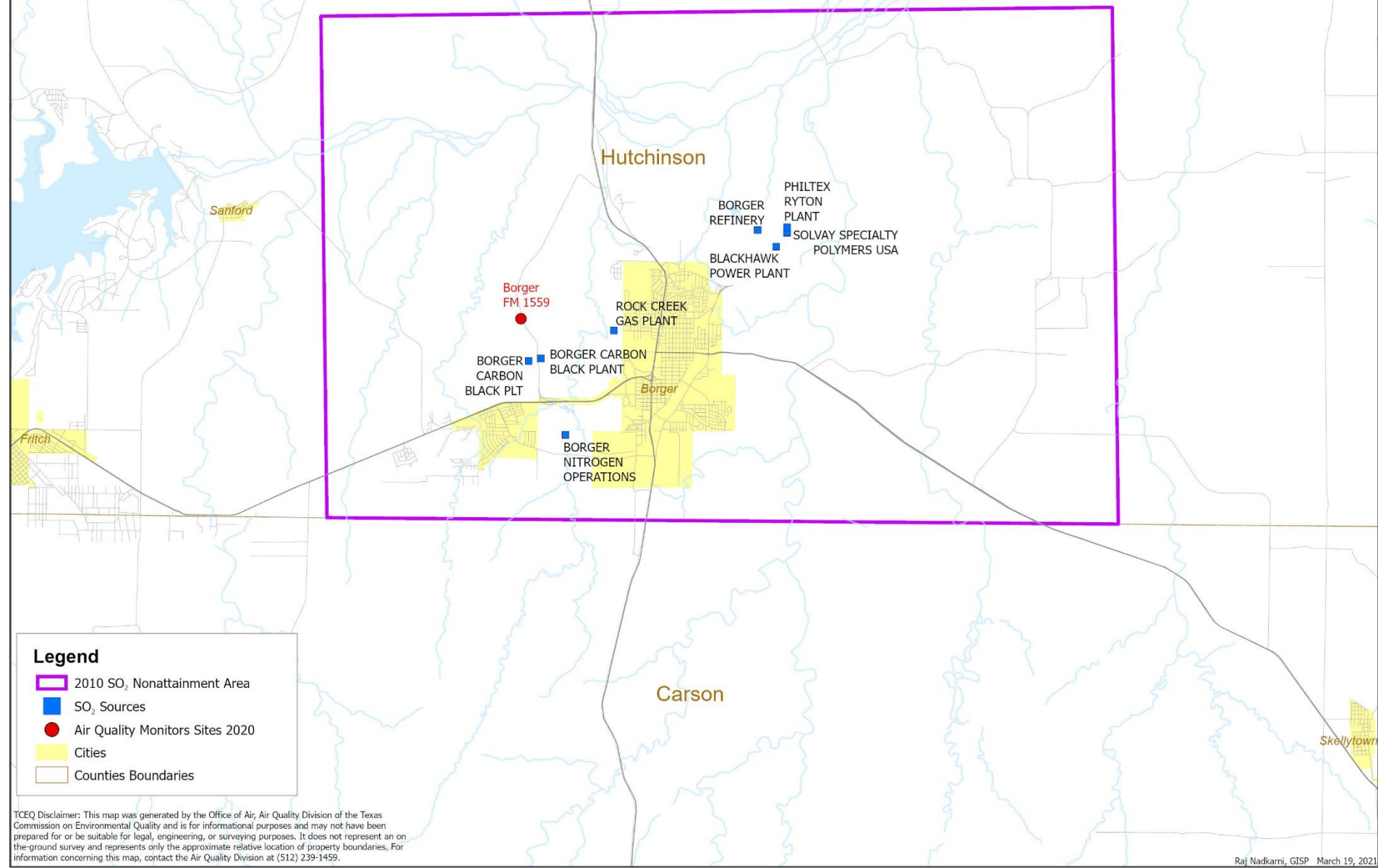
- 2010 SO₂ Nonattainment Area
- SO₂ Sources
- Air Quality Monitors Sites 2020
- Cities
- Counties Boundaries

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Hutchinson County 2010 SO₂ Nonattainment Area

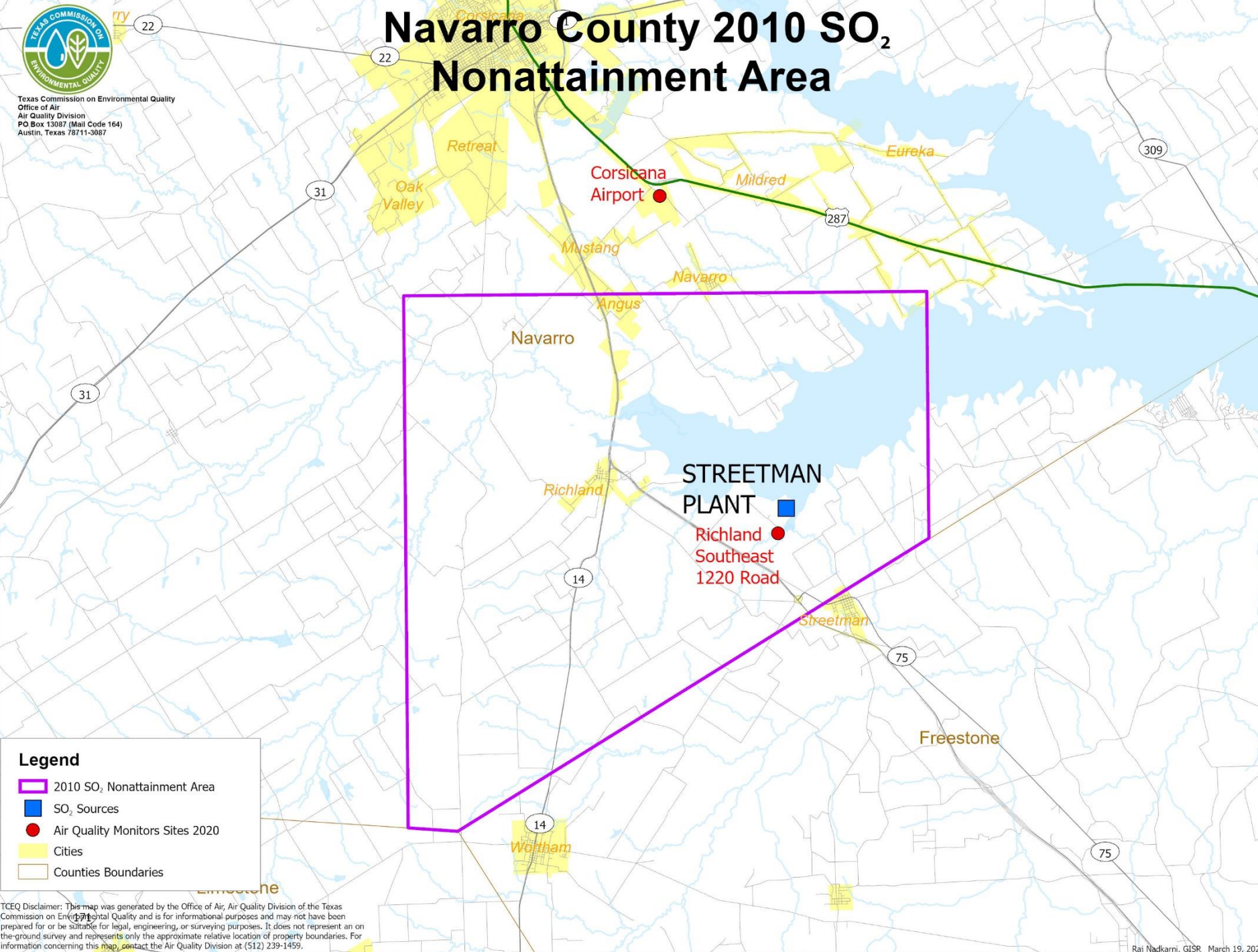


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Navarro County 2010 SO₂ Nonattainment Area



Legend

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2010 SO₂ NAAQS Nonattainment Area SIP Requirements

- SO₂ Attainment Demonstration
- SO₂ Contingency Measures
- Emission Inventory
- SO₂ Nonattainment New Source Review
- SO₂ Reasonably Available Control Measures/Reasonably Available Control Technology
- SO₂ Reasonable Further Progress



SIP Requirements

- SIP revisions are due within 18 months of nonattainment designation effective date.
- Control measures must be in place to allow for one full year of monitoring data to determine if the standard is met by the attainment date.
- Areas are required to attain the standard no later than 5 years after the nonattainment designation effective date.



Possible Consequences of Failing to Submit an Approvable SIP

- Start of a federal implementation plan (FIP) clock
- EPA sanctions or other penalties
 - Withhold federal highway funds
 - Require more stringent pollution offsets



Anticipated Nonattainment Area SIP Schedule

- April 2022: Tentative proposal of SIP revisions
- April – June 2022: Public comment period and public hearing
- October 2022: Tentative adoption of SIP revisions
- October 2022: SIP revisions due to EPA
- January 2025: Controls must be in place
- April 2026: Attainment deadline



Path Forward for Emissions Sources

- Develop control strategies
- Negotiate agreements to implement control strategies
- Implement needed permit and physical changes by 2025



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Questions and Comments?

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